

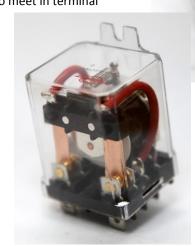
BETA ELECTRIC INDUSTRY CO., LTD. RELAYS & COMPONENTS

FEATURES

- Plug-in relay
- Quick connect receptacles or direct soldering. PCB terminals are also acceptable.
- Large capacity 30A contact rating.
- Optional blowout magnet: high voltage dc switching.
- Wide spacing between stationary contact terminals: clearance for fully booted quick connect terminals.

■ 2Millimeter contact gaps: 8millimeter creep age and clearance to meet in terminal requirements.

- Improved dielectric strength between contacts: 4000vrms dielectric between mutually insulated conductive elements and frame.
- L.E.D. status lamp: shows coil "ON" or "OFF" status.



LINEUP

STANDARD COIL POLARITY

Туре	Combont forms	Pull-in terminal/dust cover					
	Contact form	Standard	With LED	With LED, push button			
Class B coil insulation	DPDT	BTA12-2C-S-C	BTA12-2C-S-CL	BTA12-2C-S-CLM			
	SPST-NO-DM	BTA12-1X-S-C	BTA12-1X-S-CL	BTA12-1X-S-CLM			
	SPST-NC-DB	BTA12-1Y-S-C	BTA12-1Y-S-CL	BTA12-1Y-S-CLM			
	SPDT-DM-DB	BTA12-1Z-S-C	BTA12-1Z-S-CL	BTA12-1Z-S-CLM			
	DPST-NO	BTA12-2A-S-C	BTA12-2A-S-CL	BTA12-2A-S-CLM			
Class F coil insulation	DPDT	BTA12-2C-S-C-F	BTA12-2C-S-CL-F	BTA12-2C-S-CLM-F			
	SPST-NO-DM	BTA12-1X-S-C-F	BTA12-1X-S-CL-F	BTA12-1X-S-CLM-F			
	SPST-NC-DB	BTA12-1Y-S-C-F	BTA12-1Y-S-CL-F	BTA12-1Y-S-CLM-F			
	SPDT-DM-DB	BTA12-1Z-S-C-F	BTA12-1Z-S-CL-F	BTA12-1Z-S-CLM-F			
	DPST-NO	BTA12-2A-S-C-F	BTA12-2A-S-CL-F	BTA12-2A-S-CLM-F			

Notes:

- The insulated temperature of Class B coil insulation is 130℃. The insulated temperature of Class F coil insulation is 155℃.
- 2. Add BTA12 suffix letter B represents the Blow-out feature, ex. BTA12B-2C-S-C
- 3. The standard contact material AgCdO can be replaced by AgSnO2 gold flashed by adding a letter B in its product name, ex. BTA12-2C-B-S-C.
- 4. Terminal has other options, such as S, S1, S2, P1, P2, for example: The letter "S2" in the BTA15-2C-S2-C represents the S2 type terminal, its dimension is 4.8X0.5. (refer to catalog for Terminal Style below)
- 5. Standard cover can be replaced by changing the code in product name, ex. BTA12-2C-S2-C1 for side flange cover. (refer to catalog for cover Style below)



BETA ELECTRIC INDUSTRY CO.. LTD. RELAYS & COMPONENTS SPECIFICATIONS

COIL RATINGS

Rated voltage		Rated current 50 Hz 60 Hz		Coil resistance (Ω)	Must operate voltage	Must release voltage of rated volta	Max. voltage ge	Power consumption (approx.)
	6 V*	958	807	3.1				
	12 V	331	274	13.5				
AC	24 V	169.5	141.2	54	85	30		3.4VA
	120V	37.8	31.2	1270				
	240V	14.1	11.2	5400			110	
	6 V*	28	32	18.7			110	
	12 V	16	50	51				
DC	24 V	10	06	230	80	10		2.0W
	48V*	46	5.2	1050				
	110 V	17.6		6300				

Note:

- 1. The coil resistance is measured at a coil temperature of 25 $^{\circ}\mathrm{C}$ and 35%-70% of humidity.
- 2. The operating parameter is measured at a coil temperature of 25 $^{\circ}$ C indicated in the percentage of the rated voltages.
- 3. The coil rated current is measured as the real current consumption under the rated voltages.

CONTACT RATINGS

CONTACT RATINGS			
Item	BTA12		
Resistive load (CosΦ=1)	30A 300VAC 30A 28VDC		
Motor	1HP 120VAC 2HP 208-600VAC		
Carry current	30A		
Max. switching voltage	300VAC 28VDC		
Max. switching current	30A		
Max. switching power	9000VA 840W		



BETA ELECTRIC INDUSTRY CO.. LTD. RELAYS & COMPONENTS

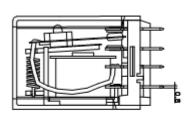
CHARACTERISTICS

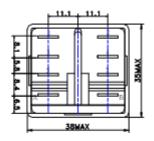
Item	All Relays			
Contact resistance	50mΩ Maximum.			
Operate time	25mS Maximum.			
Release time	20mS Maximum.			
Max. operating frequency	Mechanical: 18,000 operations/hr Electrical: 1,800 operations/hr (under rated load)			
Insulation resistance	1000MΩ Minimum. At 500VDC.			
	Between open contact: 2500 VAC for 1 minute.			
Dielectric strength	Between contact and coil: 2500VAC for 1 minute.			
	Between live parts and ground: 4000VAC for 1 minute.			
Vibration resistance	Destruction: 10 to 55 to 10 Hz, 0.5 mm single amplitude (1.0 mm double amplitude) Malfunction: 10 to 55 to 10 Hz, 0.5 mm single amplitude (1.0 mm double amplitude)			
Shock resistance	Destruction: 1,000 m/s²(approx. 100G) Malfunction: 1,00 m/s² (approx. 10G)			
Endurance	Mechanical life: 10,000,000 operations. Electrical life: 100,000 operations.			
Ambient temperature	-30°C to +50°C (AC); -30°C to +65°C (DC)			
Ambient humidity	5% to 85%			
Weight	85g			

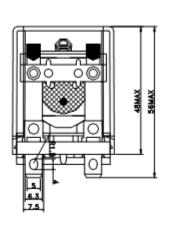
DIMENSION

■ Relays with Solder/Plug-in Terminals

Standard Type



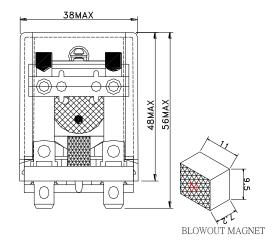




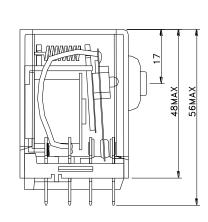


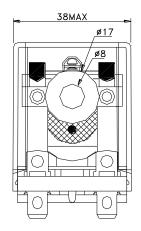
BETA ELECTRIC INDUSTRY CO., LTD. RELAYS & COMPONENTS

With blowout magnet: BTA12B



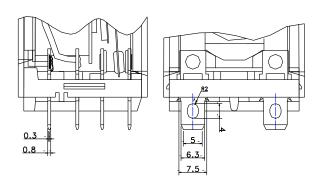
With push button: Code M



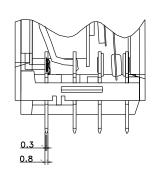


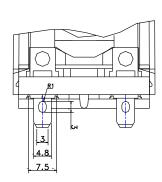
Terminal style

Standard terminal: code S

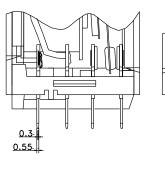


Code: S1



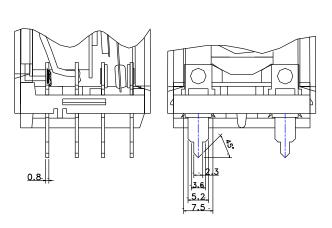


Code: S2



3. 4.8 7.5

Code: P1

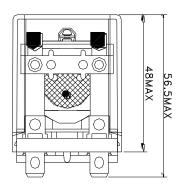


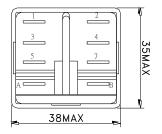


BETA ELECTRIC INDUSTRY CO., LTD. RELAYS & COMPONENTS

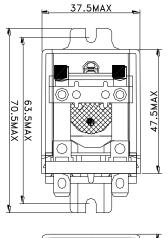
Cover style

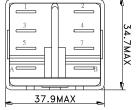
Plain cover: code C



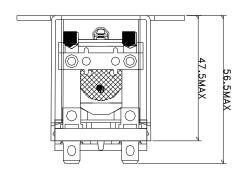


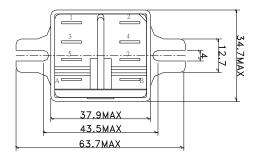
Side flange cover: Code C1



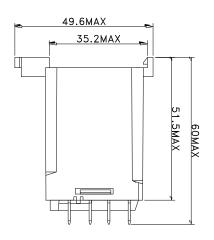


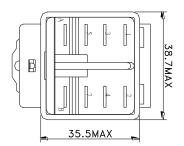
Top flange cover: Code C3





Din rail mount: Code C4

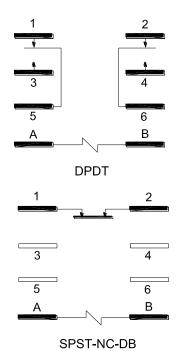


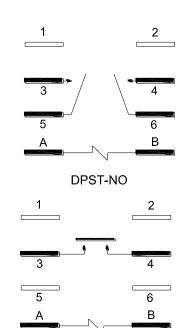




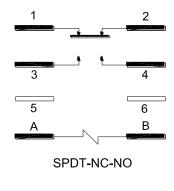
BETA ELECTRIC INDUSTRY CO., LTD. RELAYS & COMPONENTS

Wiring diagram





SPST-NO-DM





BETA ELECTRIC INDUSTRY CO., LTD. RELAYS & COMPONENTS

HOW TO ORDER

